

CLAIMS

What is claimed is:

1. An access panel door for a computer, comprising:
a support body which extends so as to cover an opening in a computer chassis, has a perimeter, and has four sides; and
flanges spaced inward from the perimeter and extending from a major surface of the support body for mating with EMI clips on the computer chassis,
wherein each flange substantially extends along length of its corresponding side and each of the sides has only one flange.
2. The access panel door of Claim 1, wherein one side of the access panel door has members for engaging a locking mechanism in the computer chassis.
3. The access panel door of Claim 2, wherein the engaging members are located outside the area bound by the flanges.
4. The access panel door of Claim 3, wherein hinging elements are formed on the access door on the side of the access panel door opposite to the side which has the engaging members and wherein the engaging members are two latches spread out to give a wider holding area so that the computer case may be lifted by a vacuum lift attachable to the access panel door.
5. The access panel door of Claim 4, wherein a tab projects at the perimeter of the side of the access panel door that has engaging members, the tab having at least one perforation to provide for further securing the access panel door to the computer chassis.

6. A computer case, comprising:

an access panel door, the access panel door comprising a support body having a perimeter and having four sides and flanges spaced inward from the perimeter and extending from a major surface of the support body; and

a chassis with an opening on one side for mounting the access panel door, the chassis having a handle with a stationary part and a movable part in which the access panel door is opened when the stationary part and the movable part of the handle are squeezed together, the chassis having EMI clips which mate with the flanges of the access panel door,

wherein each flange substantially extends along length of its corresponding side and each of the sides of the access panel door has only one flange.

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7. A computer case, comprising:
an access panel door, the access panel door comprising
a support body which extends so as to cover an opening in a computer chassis,
has a perimeter, and has four sides; and
flanges spaced inward from the perimeter and extending from a major surface of
the support body; and
a chassis with an opening on one side for mounting the access panel door, the chassis
having a handle with a stationary part and a movable part in which the access panel door is
opened when the stationary part and the movable part of the handle are squeezed together, the
chassis having EMI clips surrounding the opening, the EMI clips retentively receiving the
flanges of the access panel door,
wherein each flange substantially extends along length of its corresponding side and
each of the sides of the support body has only one flange,
wherein one side of the access panel door has members for engaging a locking
mechanism in the computer chassis, the engaging members being located outside the area
bound by the flanges,
wherein hinging elements are formed on the access door on the side of the access panel
door opposite to the side which has the engaging members and wherein the engaging members
are two latches spread out to give a wider holding area so that the computer case may be lifted
by a vacuum lift attachable to the access panel door,
wherein a tab projects at the perimeter of the side of the access panel door that has
engaging members, the tab having at least one perforation to provide for further securing the
access panel door to the computer chassis.

8. The computer case of Claim 7, wherein the computer chassis further comprises
slots for accepting the hinging elements of the access panel door.

9. The computer case of Claim 8, further comprising a rim formed inward around the opening of the chassis of the computer case.

10. The computer case of Claim 9, wherein the EMI clips retentively held by the rim along the edges of the opening.

11. The computer case of Claim 10, wherein the EMI clips are generally U-shaped.

12. The computer case of Claim 11, wherein there are four EMI clips per chassis.

13. The computer case of Claim 11, wherein there are eight EMI clips per chassis.

14. The computer case of Claim 11, wherein a backup thumb screw is used to further attach the access panel door to the computer case.

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15. An information handling system case, comprising:
a chassis suitable for containing an electronic component;
an access door removably mounted to the chassis, the access door suitable for permitting access to an electronic component contained in the computer chassis; and
a release mechanism adjacent to the access door, wherein the release mechanism is manually operable by a single hand of a user to release the access door from the chassis, the access door separating from the chassis upon manipulation of the release mechanism by the user.

16. The information handling system case of Claim 15, the chassis including a U-shaped clip; and
the access door including a flange made of a conductive material, wherein the conductive flange engages the U-shaped clip when the access door is installed on the chassis.

17. The information handling system case of Claim 16, wherein the access door has hinging pins which fit within slots on the chassis so as to provide the access door rotational movement about an axis defined by the mating of the hinging pins and the slots.

18. The information handling system case of Claim 17, wherein the single handedly operational squeezable handle on the chassis causes the engagement of a locking mechanism of the chassis with an engaging member of the access door.

19. The information handling system of Claim 18, wherein the access door is further secured to the chassis by means of a back up screw attachment.

20. A method for accessing the inside of a computer case having an access panel door and a chassis, comprising the step of:
opening the access panel door in a latched state by squeezing a handle.

21. The method of Claim 20, wherein the access panel door opens slightly when the handle is squeezed.

22. The method of Claim 21, further comprising removing the panel door from the computer chassis by a pulling action on the opened access panel door.

23. The method of Claim 22, wherein the pulling action includes removing hinging members that are part of the access panel door from the retentive elements in the computer chassis.

24. The method of Claim 23, wherein the hinging members are pairs of hooks, each pair of hooks corresponding to one retentive element of the computer chassis.

25. The method of Claim 24, wherein the squeezing the handle involves moving a movable portion of a handle toward a stationary portion of the handle and wherein the handle is part of the computer chassis and not part of the access panel door.

26. The method of Claim 25, wherein the access panel door is opened and removed by a single hand.

27. A computer case, comprising:
a computer chassis with an opening on one side;
an access panel door which covers the opening and attaches to the computer chassis;
and
means for removing the access panel door from the computer chassis using a single hand of a user.

28. The computer case of Claim 27, further comprising means for pivotally attaching the access panel door to the computer chassis.

29. The computer case of Claim 27, further comprising means for EMI sealing the computer case.

30. The computer case of Claim 27, further comprising means for securing the access panel door to the computer chassis.

31. The computer case of Claim 27, wherein the access panel door has a reinforcing member extending along its midsection.

32. The computer case of Claim 31, wherein the access panel door has two flanges on one of its sides.

33. The computer case of Claim 27, wherein the access panel door has a matrix of reinforcing ribs substantially covering the either the major planar side of the access panel door which faces the opening of the chassis when mounted or the major planar side facing externally from the chassis when mounted.

34. The computer case of Claim 27, wherein the computer chassis and the access

panel door are both formed of electrically conductive material.

35. The computer case of Claim 34, wherein the computer chassis and the access panel door are both formed of metal or metallic alloy.

36. The computer case of Claim 27, wherein the access panel door fully covers the side of the computer chassis with the opening.

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